

# MIL - R A M T E C H N O L O G Y

## *no false alarms* Gas Detection Systems

**New &  
smarter**

## AsH<sub>3</sub> Arsine

### FEATURES: 3 or 4-Wire

### 3 or 4-Wire *smarter* Transmitter

- ***no false alarms*** - does not react with changes in temperature/ humidity/pressure
- **Does Not Drift** - no autozeroing or adjustments required
- **Rapid Warm-up** - ready to calibrate 3 minutes after power applied - does not require bias voltage to stay ready - no need to wait hours for stabilization
- **Not Affected by Humidity** - 10% to 95% relative humidity - continuous  
0% to 99% relative humidity - intermittent
- **Not Affected by Temperature** - -20° C to +40° C is not temperature compensated
- **Self-Calibration** - microcontroller electronics automatically adjusts span calibration over time based on typical life curve for sensor - sensors not routinely calibrated stay much closer to proper calibration - reduces calibration frequency - actual field calibration data re-adjusts life curve
- **Sensor Life Remaining** - determined based on sensor life curve, calibration history and electrical characteristics of sensor - shown on LCD display
- **Non-Intrusive One-Man Calibration** - use magnet to actuate zero and span calibration switches behind enclosure glass window - no manual adjustments required - no need to open enclosure
- **Off-site Sensor Calibration** - calibrate sensor in lab and install on any same type *smarter* Transmitter with no further calibration required - calibration data automatically uploads to transmitter to ensure precise calibration
- **Alarm Settings** - user adjustable low, mid and high alarm settings
- **Alarm Relays** - (option) low, mid and high relays, user selectable non-latching/latching, non-energized/energized - fault relay, non-latching, normally energized - all relays rated 20 amps
- **Peak Value** - 15 min. TWA/No. days since last gas calibrated
- **Loop Test** - transmitter outputs 4/8/12/16/20mA signal to verify readings and alarms at controller electronics
- **Diagnostics** - continuous analysis of transmitter system to report any fault conditions, e.g. low sensor life, low gas sensitivity, sensor disconnected, etc.
- **Maintenance Free** - no replenishment of electrolyte or water during 2+ years of normal life
- **Long Life** - over 2 years continuous operation
- **Fast Response** - 90% of reading in less than 30 seconds
- **Fast Recovery** - 90% recovery in less than 30 seconds
- **Not Saturated** by occasional high concentrations of gas in the work environment (continuous gas exposure reduces service life)
- **Stays Awake** - does not go to sleep when gas is absent for long periods of time
- **Chemically Selective**

### Self-Calibration = Cost Reduction



2 line x 12 Character Back-lit LCD Display

**Modbus Option**—RS-485 Modbus RTU, Ethernet Modbus TCP/IP. Link up to 247 *smarter* Transmitters on a twisted pair cable and collect data continuously at host computer, PLC, PC, data-logger, etc. P/N: 01-2540SMTRMB

### TRANSMITTER SPECIFICATIONS:

<b>Operating Voltage:</b>	12 or 15-30VDC
<b>Transmitter Outputs:</b>	4-20 mA, RS-485 Modbus RTU (option)
<b>Sampling Method:</b>	Diffusion (Sample-Draw Available)
<b>Calibration Method:</b>	Non-Intrusive, magnetic switches
<b>Enclosure:</b>	CSA/FM/UL/CENELEC/KEMA Class I, Div. I, Groups B/C/D Class II, Groups E/F/G Class III, Type 4X
<b>Weight:</b>	3.5lbs/1.589kg.
<b>Part Number:</b>	01-2540SMTR
<b>Power Required:</b>	1.08W at 24VDC/2.60W Max. w/Relays

**Note: Specifications subject to change without notice**

### SENSORS:

<b>Detection Principle:</b>	Electrochemical
<b>Detection Method:</b>	Diffusion (Sample-Draw Available, Nema 4X)
<b>Detection Range:</b>	0.00-1.00 ppm; 0.00-10.00 ppm
<b>Output Signal:</b>	Linear
<b>Resolution:</b>	.01 ppm
<b>Response Time:</b>	<30 sec. to 90% of final reading
<b>Recovery Time:</b>	<30 sec. to 90% recovery
<b>Humidity Range:</b>	10% - 95% RH, non-condensing - continuous 0% - 99% RH, non-condensing - intermittent
<b>Temperature Range:</b>	-20°C to +40°C -4°F to +104°F
<b>Pressure Range:</b>	Atmospheric ±15%
<b>Zero Drift:</b>	<.02 ppm
<b>Position Sensitivity:</b>	None
<b>Storage Life:</b>	>6 months in container
<b>Life Expectancy:</b>	>2 years in clean air

**MIL-RAM**  
Patented Technology  
*no false alarms*  
Gas Detection Systems  
ISO 9001:2000 Certified

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